

Application No. 10/696,160

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings of claims in the application:

LISTING OF CLAIMS:

1. (Currently Amended) An apparatus for applying an electrical charge to a member ~~to be charged~~ to reduce wear to the surface on the member while charging, comprising:

a ~~contact~~ resistive elastometric roll member situated spaced from a surface of the member to be charged; and

means for applying an electrical bias to said resistive elastometric ~~contact~~ roll member, the electrical bias including an oscillating voltage signal which is clipped to remove a selected polarity component thereof to supply a single polarity oscillating input drive voltage to said resistive elastometric ~~contact~~ roll member.

2. (Original) The apparatus of claim 1, wherein the electrical bias applying means includes means for applying a DC offset to the oscillating voltage signal.

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3. (Original) The apparatus of claim 1, wherein the electrical bias applying means includes:

a high voltage power supply for providing a DC offset AC voltage signal;

a diode element coupled to the high voltage power supply for preventing current flow associated with a positive component of the DC offset AC voltage signal; and

a resistor element coupled between the diode element and a ground point for allowing current flow associated with a positive component of the DC offset AC voltage signal to flow to ground.

4. (Original) The apparatus of claim 3, wherein the high voltage power supply provides at least a 1.6 Kvolt AC voltage signal at a frequency of 400 to 3000 Hz and a DC offset of between -350 and -800 volts.

5. (Original) The apparatus of claim 1, wherein the electrical bias applying means includes:

a high voltage power supply for providing a DC offset AC voltage signal; and

a rectifier circuit for preventing current flow associated with a positive component of the DC offset AC voltage signal.

6. (Currently Amended) ~~The apparatus~~ The apparatus of claim 1, wherein the member to be charged is a photoreceptive member having a photoconductive surface layer.

7. (Original) The apparatus of claim 1, wherein the oscillating voltage signal is in the form of a sinusoidal waveform.

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8. (Currently Amended) The apparatus of claim 1, wherein said resistive elastometric roll member ~~charging device~~ is spaced 20 to 50 microns from the imaging surface.

9. (New) The apparatus of claim 1, wherein said resistive elastometric roll member has a resistivity from about 10^3 to 10^7 ohm-cm.

10. (New) An electrostatic printing having a photoreceptor and a charging device for applying a charge to the photoreceptor, a method for charging said photoreceptor to reduce wear on said photoreceptor, comprising:

providing a resistive elastometric roll member situated spaced from a surface of the photoreceptor to be charged; and

applying an electrical bias to said resistive elastometric roll member, the electrical bias including an oscillating voltage signal which is clipped to remove a selected polarity component thereof to supply a single polarity oscillating input drive voltage to said resistive elastometric member.